

FASTENER INSTALLATION TOOL

Abstract of the Disclosure

5 A fastener installation tool to install fasteners, such as rivets, risers,
standoffs, and other types of fasteners operates upon vacuum and air pressure.
Fasteners are installed with minimal reactive forces to the operator's hand, thus
reducing the risk of repetitive injuries to the operator's body. Vacuum retains the
fastener within the tool tip and retracts a piston, until an operator simultaneously
10 presses the fastener against a work piece and actuates an actuation element on the
tool. This causes air pressure to quickly thrust the piston against a hammer pin to
drive in the fastener, transferring kinetic energy from the piston to the fastener
without appreciable kick-back to the operator. A control system provides a source
of vacuum and air pressure to the tool.

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